Nteasuremonts.

|  | Miniatus. (Munterey.) | Pinniger. (Monferey.) |
| :---: | :---: | :---: |
| Extreme length, in incbes. | 11. 00 | 16.80 |
| Length to bisce of caudal $=100$ | 9.10 | 13.50 |
| Body: |  |  |
| Greatest depth ... <br> Least depth of tail | ${ }^{35 .}$ | 37.5 11.8 |
| Head: |  |  |
| Length | 33. | 37.5 |
| Lenath of sumut | . 085 | . 09 |
| Diameter of eym | . 095 | . 09.7 |
| Width of interorbital area | . 08 | . 085 |
| Oceipital spine. | . 07 | . 07 |
| Suprancular spinc. . | . 025 | . 07 |
| Least wilth of preorbital | . 017 | . 023 |
| Maxillary. | $1 \% .5$ |  |
| Longest gill-raker | . 05 | . 068 |
| Dursal: Hi |  |  |
| Highest (fifth) mpine | 15. 5 | 16.5 |
| Longest soft lay | 17.3 | 15. |
| Length of base | 15.5 |  |
| Second spine. | 13.5 | 11. |
| Thiral spine | 14.8 | 11. $\overline{5}$ |
| Longest ray. | 21. | 21.5 |
| Caudal, middle ray. | 17. | 15. |
| Pectural: |  |  |
| Wixth of base. | 9.5 |  |
| Length.... | 23.5 | 29. |
| Ventral, lengtl | -27.19 | -1\% 14 |
| Dorsal rays | NIIT, 14 | N゙1IT, 14 |
| Analrays.. | 111, 7 | III, ${ }^{7}$ |






Sebastichthys carnatus sli. nov.
Allied to Sebastichthys nebulosus Ayres.
Body rather short and deep, tapering rapidls to a rather slender caudal peduncle. Head short, hhutish, the profile straight and steep. Month low and rather short, the maxillary extending to rather behind the posterior edge of the eje, which is rather small and elevated. Premaxilliry entirely below the level of the eye, which is rather small and elevated. Month nearly horizontal, the jaws about equal, the lower jaw slightly shortest in the closed mouth. No prominent symphyseal knob.

Scales on the heal rather rongher than in S. nebulosus; the lower jaw, maxillary, space in front of eye, and nasal region naked, as in nebulosus.

Top of heall with the spinons ridges well developed, but somewhat lower than in S. nebulosus; otherwise rery similar. The following pairs are present: Nasal, preocular, supracular, tympanic, and occipital, five in all. The occipital spines especially are lower and narower than in nebulosus.

Preopereular spines small and bluntish, the mpermost rather broader than the second, which is the longest. Opercular and supraseapular spines two each, rather short and broad. A slight spine on interoperele and suboperele.

Gill-rakers, as in mobulosus, short, compressed, somewhat clavate, the middle ones longer aud somewhat crooked.

Spinons dorsal always higher than in nelulosus, the highest spines rather higher than the soft rays, the membranes more deeply incised than in nebulosus, but less than in muliger. Candal fintrmeate. Anal fin moderately high, the second spine stronger and slightly longer than the third, abont two-thirds the height of the soft rays. Pectoral fins rather short, abont reaching to the vent, their bases rery broad, as in related species, and the lower rays thickened and Heshy. Ventrals reaching vent.

Scales in 53 transrerse rows; the accessory seales rather momerons.
Dorsal, XIII, 12; anal III, 7 ; ploric ceca $S$; vertebre $12+15$.
Pattern of coloration almost exactly identical with that of S. nebulosus, but the shade of color very different.

In S. carmutus the light gromed color is clear Hesh color or pinkish, often tinged with grayish purple ; the light shades on the head purplish. The dark slades are yellowish-brown, usualls tinged with greenish.

In S. ncbulosns the light gronnd color is more iestricted, and its hue is usnally a clear wam brownish-yellow with orange mottlings, varying to dusky orange-brown, below often tinged with olive. The dark shades are olive-black, varying to olive-brown. The light shades of s. nebulosus are often nearly identical with the derk shades of $S$. cornatus.

In both species the pattern is a light gromel color, with dark blotches, the dark color predominating above. Membrane between third and fourth spinces always pale, this color forming a bloteh at the base of these spines, and then extending obliquely downwards and backwards; joining the ventral color. In front of this light area on the sirles is a narrow oblique clark one, in front of which in turn is a light one, which begins at the angle of the opercle and divides, passing aromul the pectorals and uniting below them.

A light bloteh under the eighth dorsal spine extending up on the fin; also another at the junction of the two dorsals, and still another moder the last ray. Under each of these blotches irregular undulating light areas extend down the sides, either continnons or as detached blotehes. The pale dorsal blotches correspond in position to the pink dorsal spots of rosuceus, constellatus, oculatus, and chlorostictus, and to pale areas fonnd in fasciolaris, vexilluris, maliger, and other species.

Head above with cross-shades and bands radiating from the ere. Fins with the general pattern of color of neighboring parts of the borly.

This species is rery closely related te S. nobulosus, and from it camot always be readily distingnished excent by the color. Like S. mebulosus, it is one of the smaller species, soldom reaching a length of much over a foot. It is very aburdant in the Bay of Monterer, forming a large proportion of the "rock-fish" shipped from Monteres to the San Francisco market. S. nebulosus occurs in the same waters, and the examination of great numbers of examples of both sexes and all ages has
convincel us that, althongh closely related, the two forms are permamently distinct. Whether hereafter to be regarded as a species or as a "sinbspecies," the form is a peculiar one, and as such worthy of a name.

Measurements.


APRIL 2, 1880.

# CHECK-LIST OF DEPEXCATES OF NORTII ADERECAN FESEIES  OF TEIE UNITED STATES NATMONAL MUSEUM, 1S77-1SS0. 

## Prepared by TARLETON H. BEAN.

## 1. Lophius piscatorius Linn.

Lophius americanus Storer, Hist. Fish. Mass., 1867, p. 101, pl. xviii, fig. 2.
22311. Gloucester, Massachusetts.

## ANTENNARIID.E.

2. Pterophryne histrio Liun.

Pterophryne lcevigata (Cirr.) Gill, Cat. Fish. E. Coast N. A., 1873, p. 14.
20662. Wood's Holl, Massachusetts (3).

## DIODONTID.E.

3. Diodon hystriz Linn.
4. Bermuda.
5. Chilomycterus geometricus (Linn.) Kaup.
6. East coast of United States.
7. Noank, Connectient.
8. Eastern shore of Virginia.
9. Beaufort, North Carolina.
10. Fort Mracon, North Carolina.
11. Eastern shore of Virginia.
12. Coast of New England.
13. Newport, Rbode Island.
14. Easteru coast of Cnited States. 22912.
